

Repository Index

Subject Index	Finger Index	Minutia Index
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Figure 1

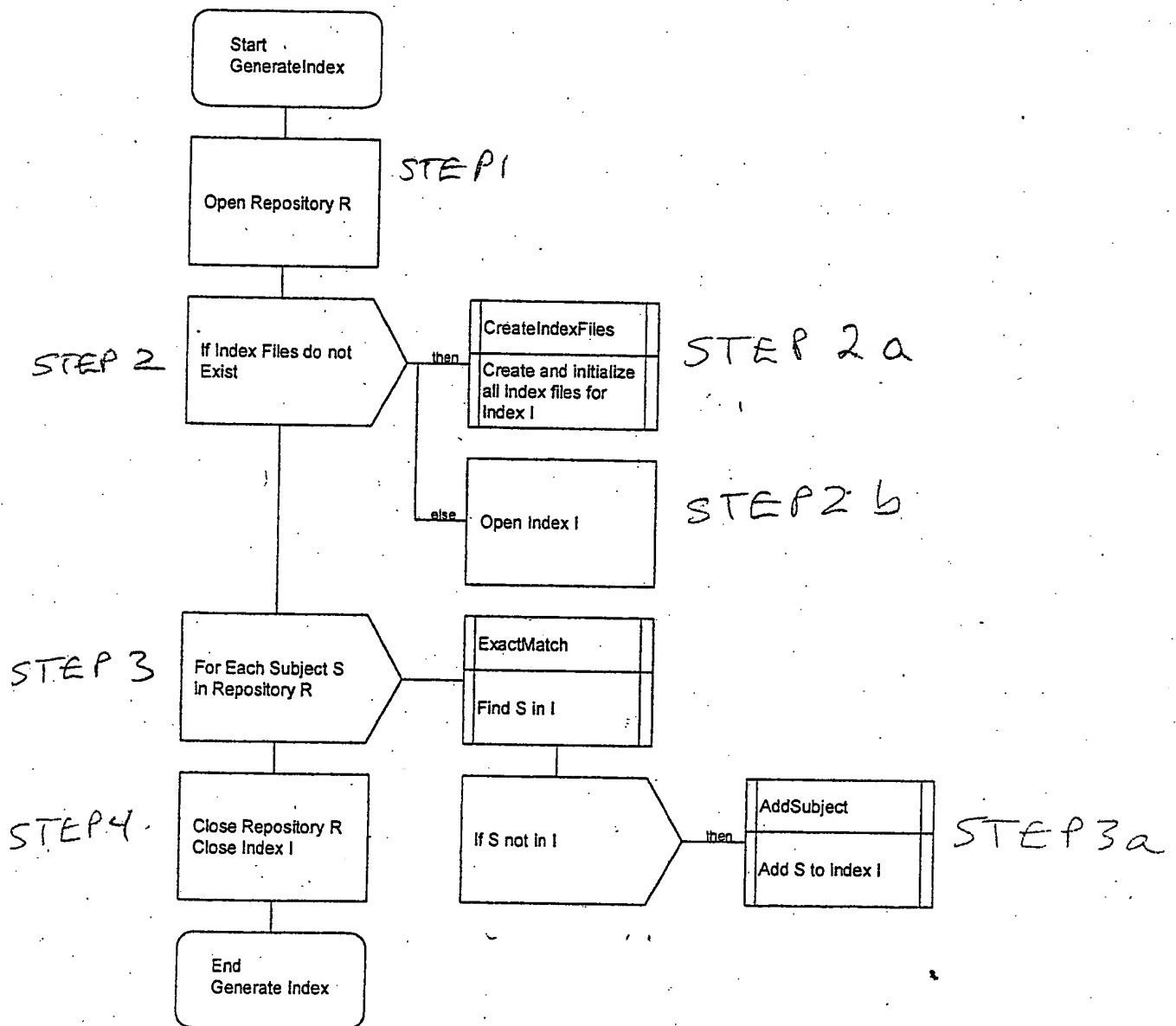


Figure 2

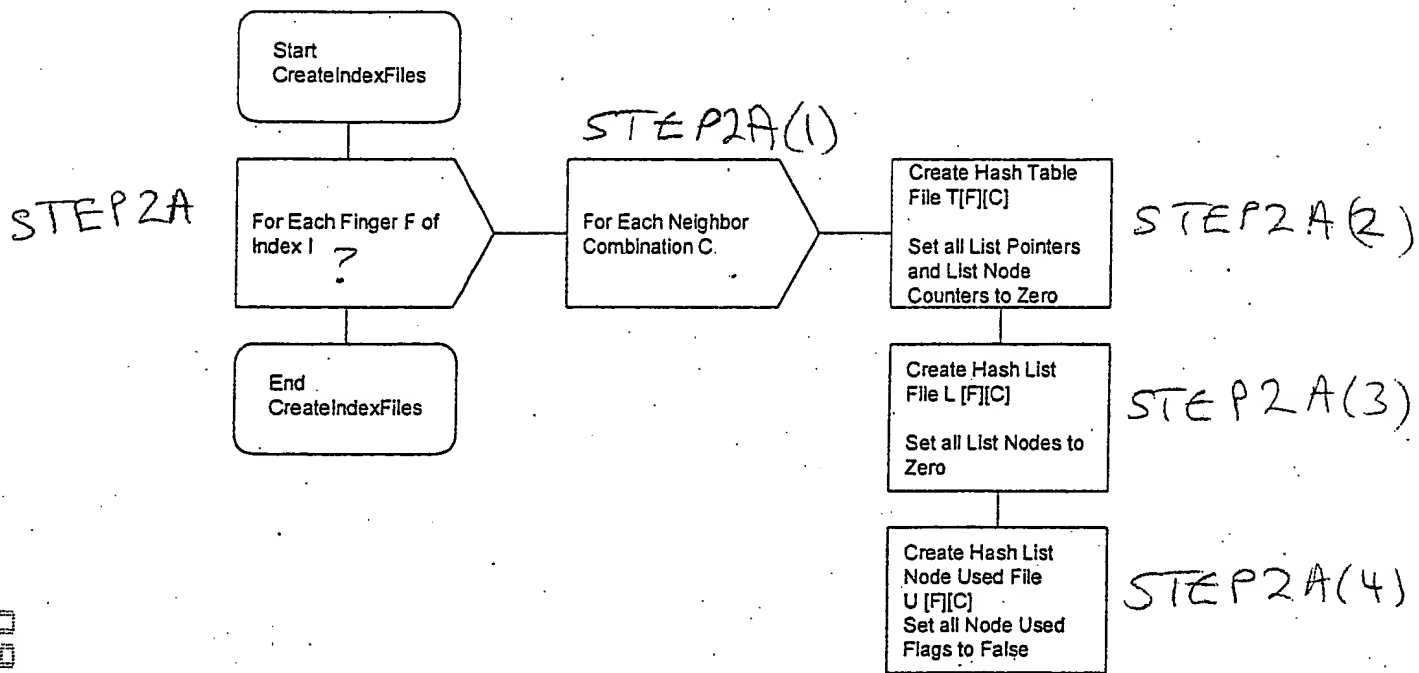


Figure 3

Hash List Node

Hash Code
Node Count
Repository Index[0]
Repository Index[1]
Repository Index[2]
Repository Index[3]
.
Repository Index[26]
Repository Index[27]
Repository Index[28]
Repository Index[29]

Figure 4

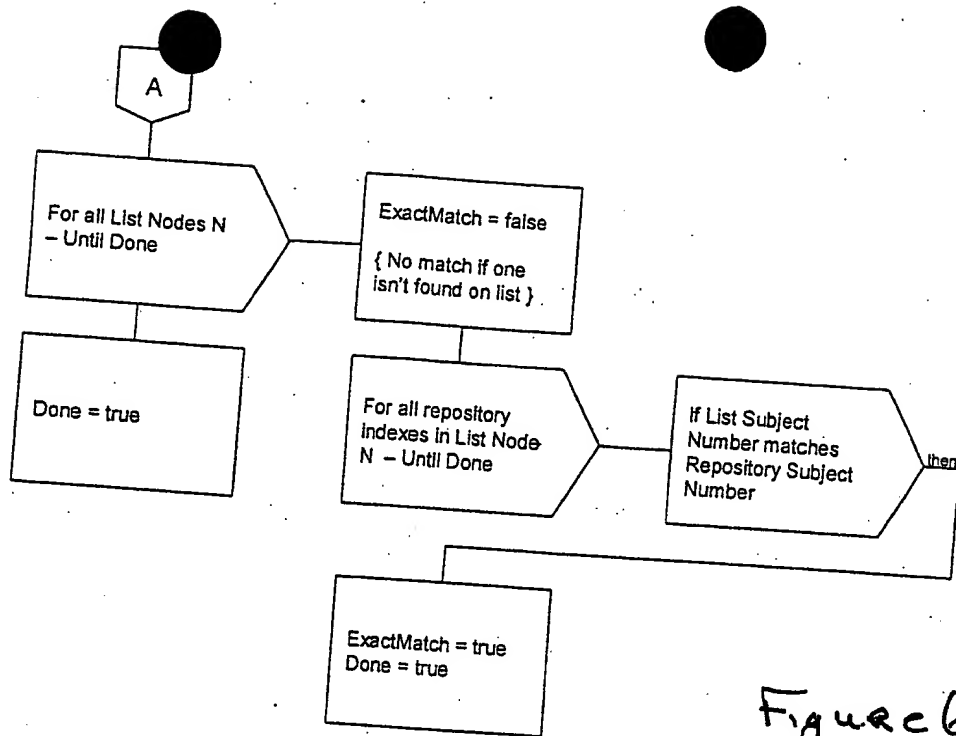


Figure 6

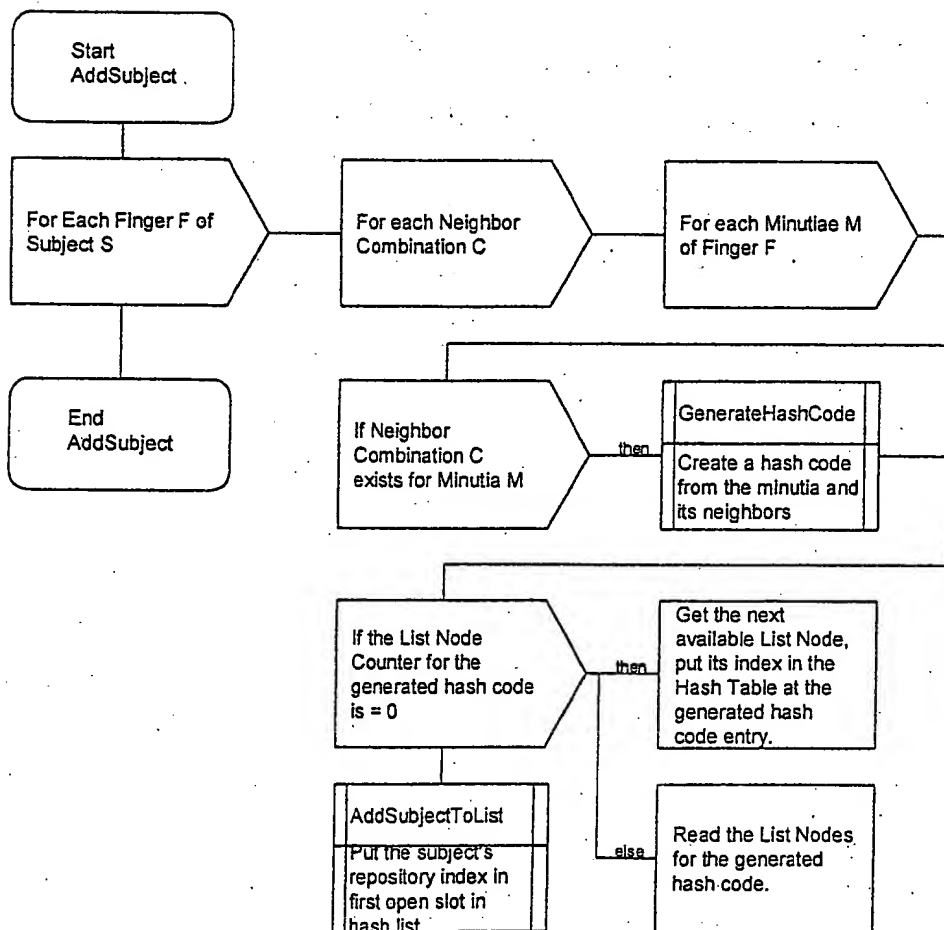


Figure 7

```

graph TD
    Start([Start  
GenerateHashCode]) --> QuantizeBase[Quantize Base  
Angle using Base  
Angle Quantization  
Vector]
    QuantizeBase --> QuantizeNeighborABEuclidean[Quantize Neighbor A  
and B Euclidean  
Distance using  
Neighbor Distance  
Quantization Vector]
    QuantizeNeighborABEuclidean --> QuantizeNeighborABRelativeAngle[Quantize Neighbor A  
and B Relative Angle  
using Relative Angle  
Quantization Vector]
    QuantizeNeighborABRelativeAngle --> HistogramEqualizeRidgeCounts[Histogram Equalize  
Neighbor A and B  
Ridge Counts using  
Ridge Count  
Equalization Vector]
    HistogramEqualizeRidgeCounts --> End([End  
GenerateHashCode])
    
    HistogramEqualizeNeighborABEuclidean[Histogram Equalize  
Neighbor A and B  
Euclidean Distance  
using Neighbor  
Distance  
Equalization Vector] --> HistogramEqualizeNeighborABRelativeAngle[Histogram Equalize  
Neighbor A and B  
Relative Angles  
using Relative Angle  
Equalization Matrix]
    HistogramEqualizeNeighborABRelativeAngle --> GenerateHashCode[A0 + R0(A1 +  
R1(A2 + R2(A3 +  
R3(A4 + R4(A5)))))]
    GenerateHashCode --> End
  
```

Figure 8

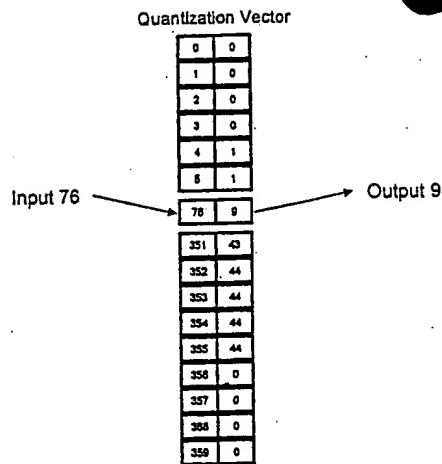


Figure 9.

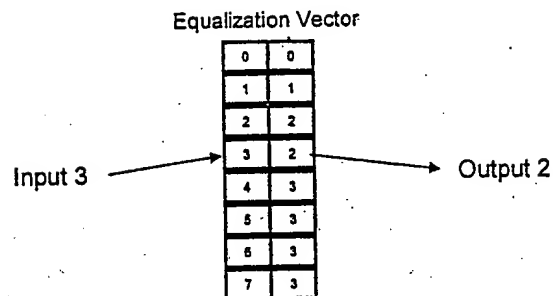


Figure 10/

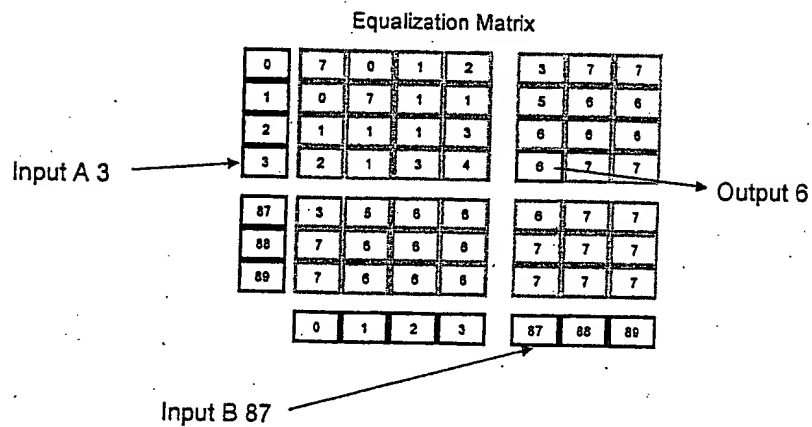


Figure 11

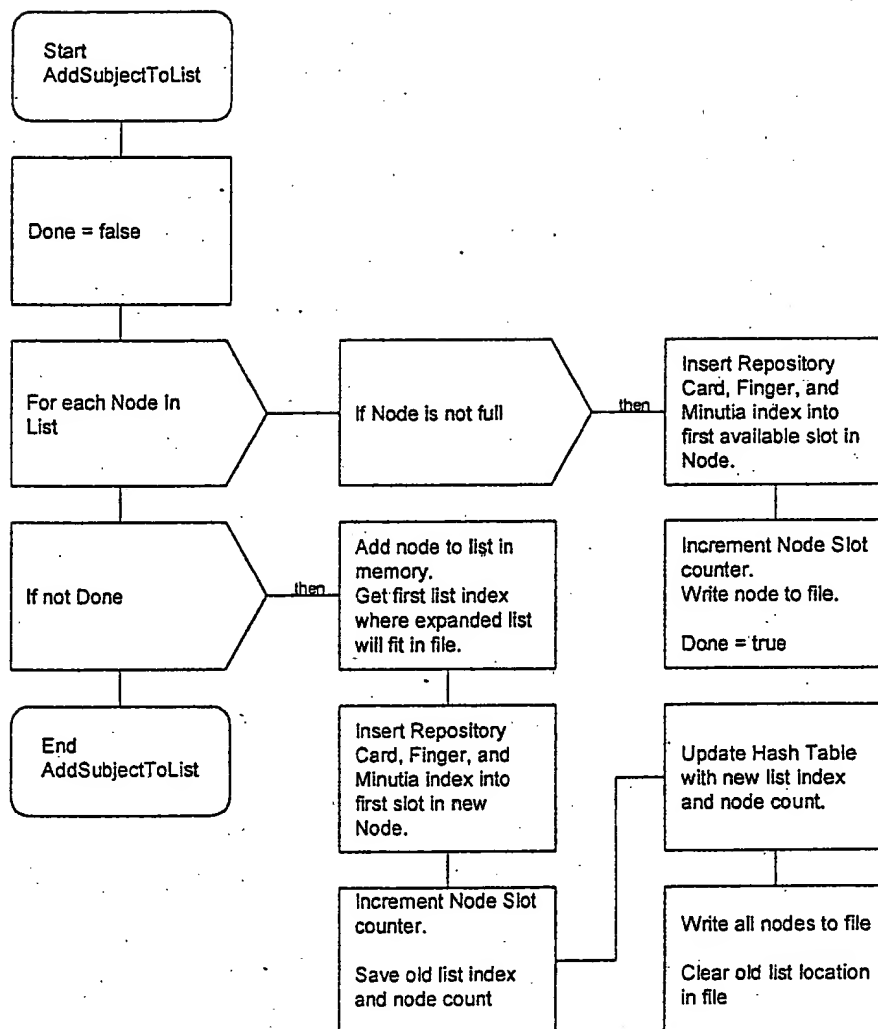


Figure 12.

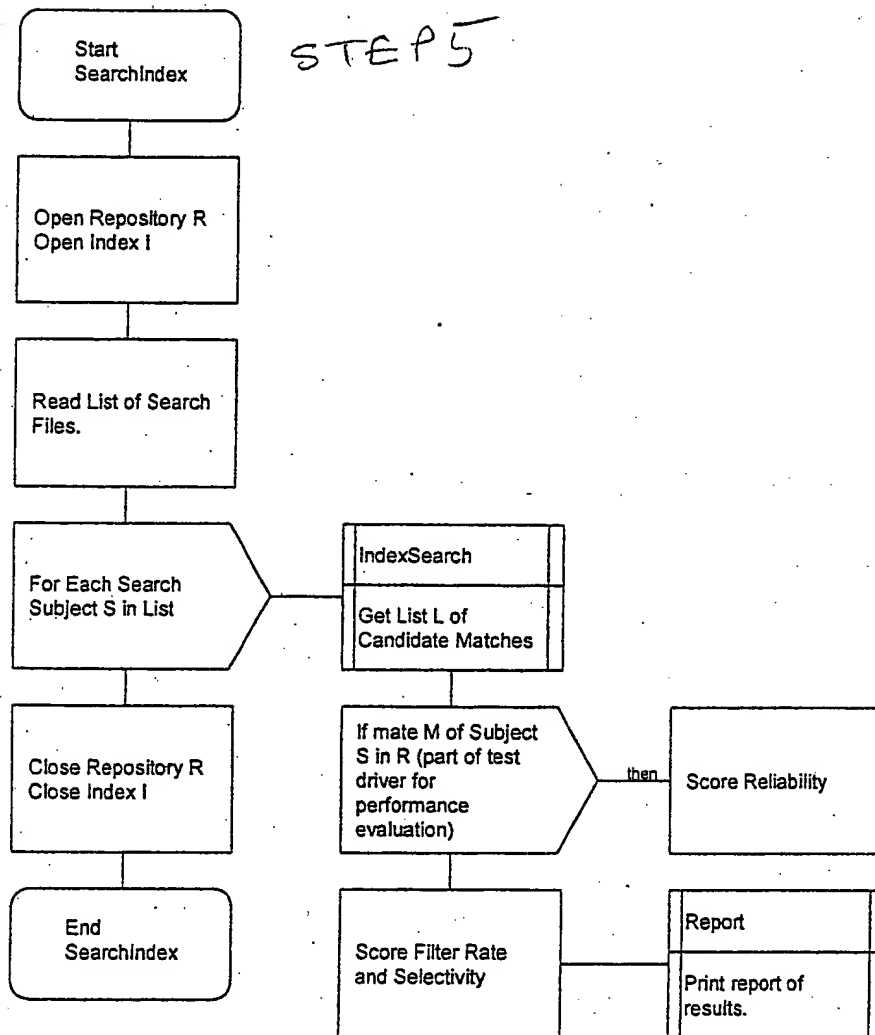


Figure 13

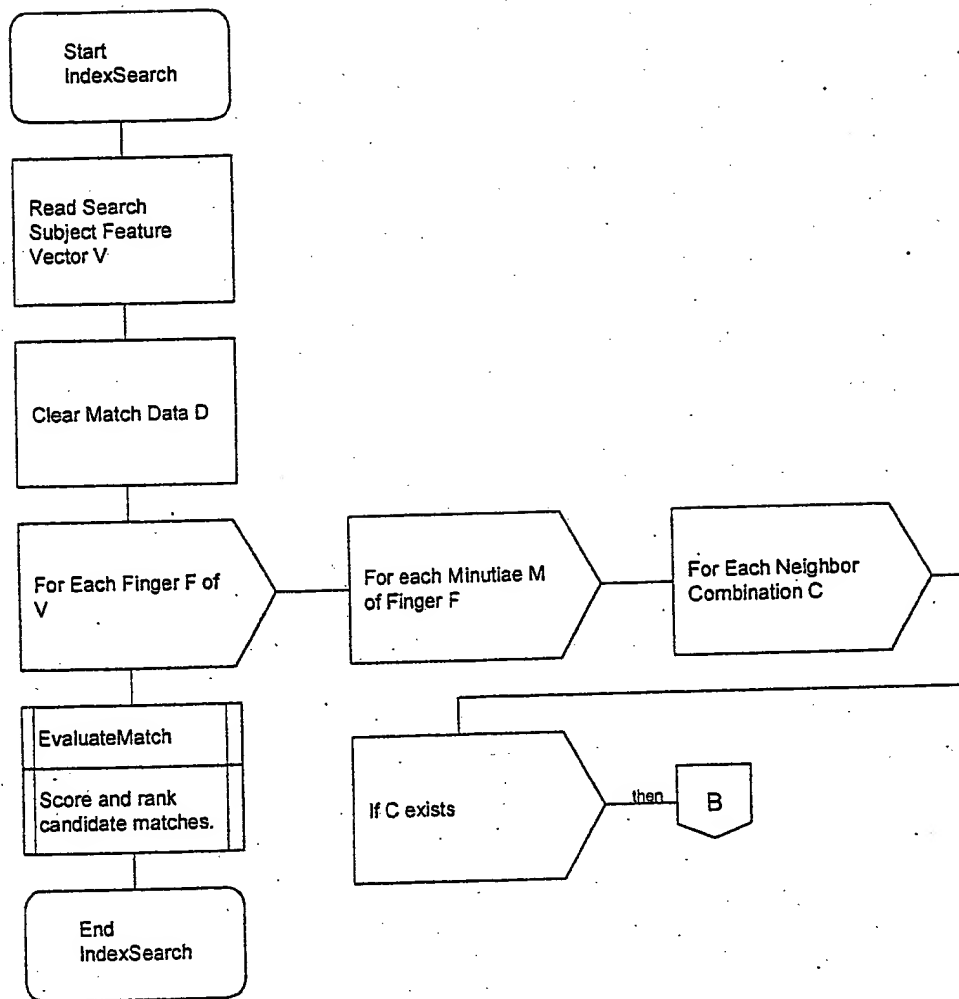


Figure 14

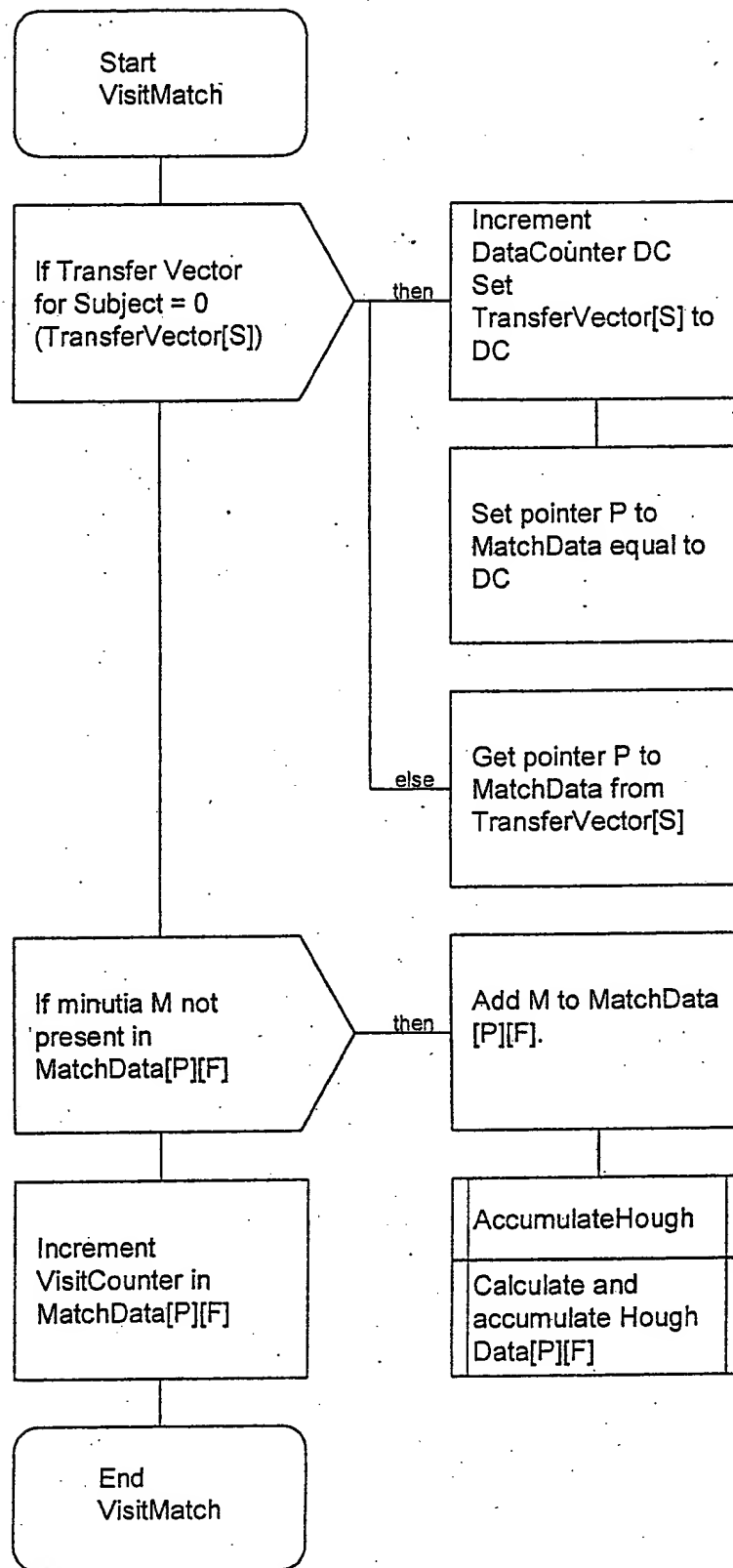


Figure 16. VisitMatch Subprogram Flow Diagram.

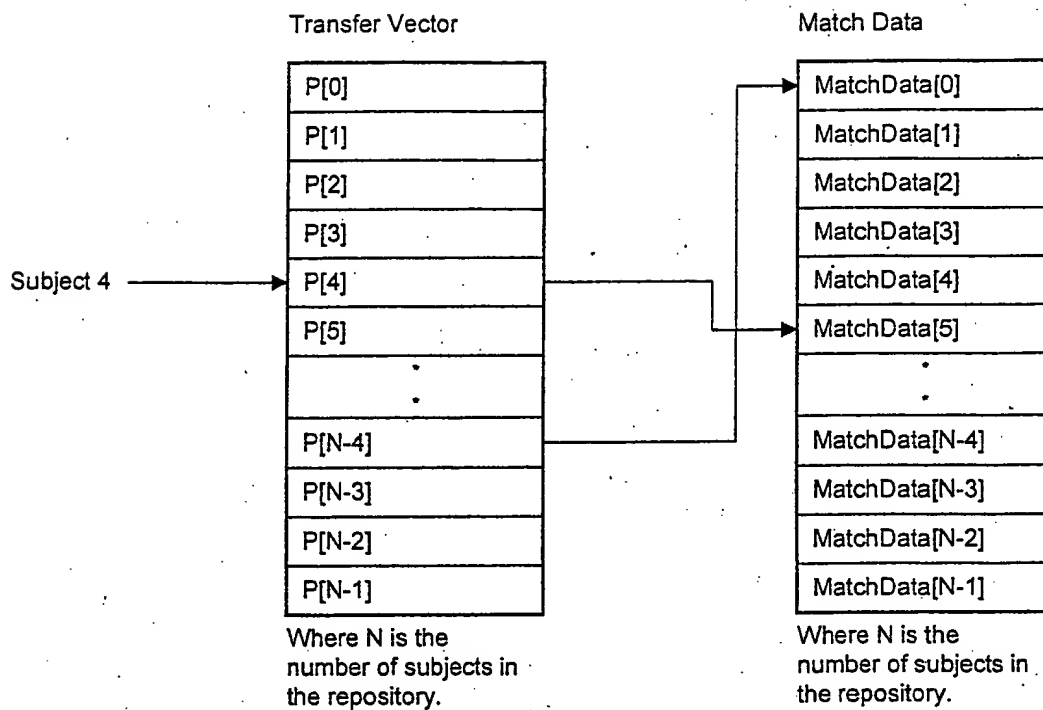


Figure 17. Transfer Vector Data.

Match Data

VisitCount
MinutiaBitMap[0]
MinutiaBitMap[1]
MinutiaBitMap[2]
MinutiaBitMap[3]
HoughAcc[0][0]
•
•
HoughAcc[7][7]
Score

Figure 18.

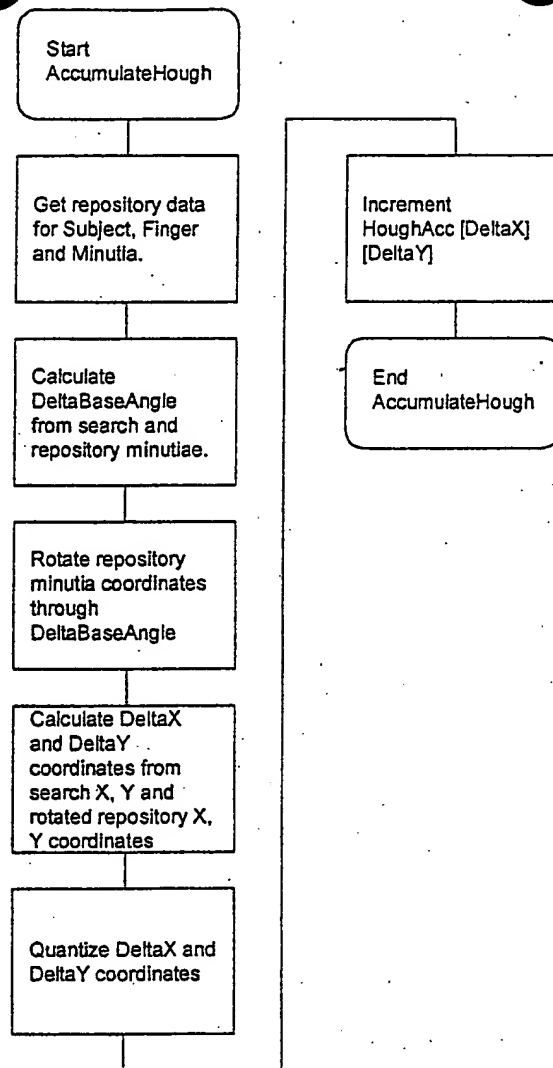


Figure 19

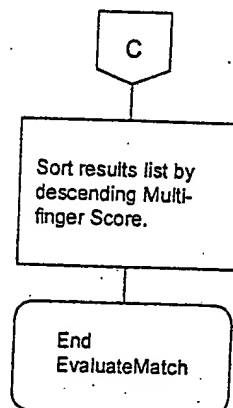


Figure 21

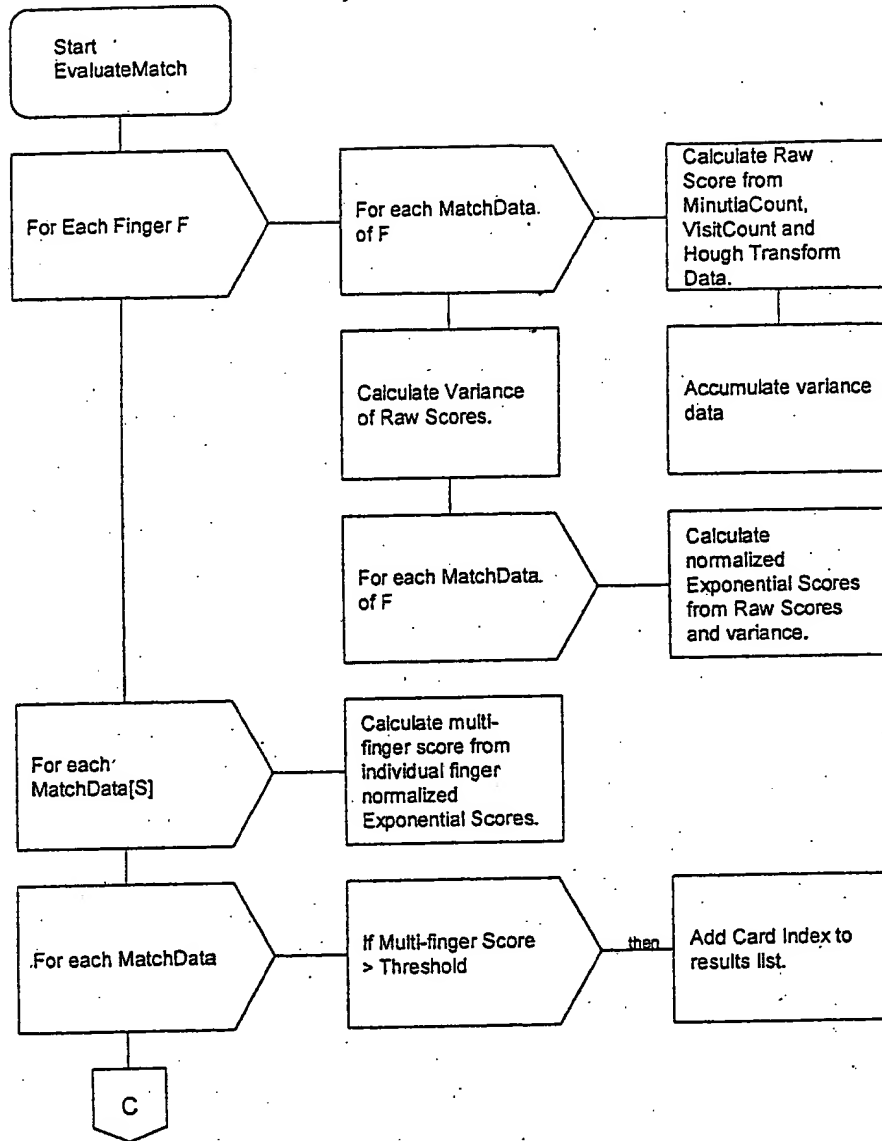


Figure 20. EvaluateMatch Subprogram Flow Diagram.